Surface Ships
SHIPMAIN

SHIPMAIN

"Maintenance Team" Training:

Validation, Screening & Brokering

Briefing Summary

- *Introduction*
- *The SHIPMAIN Process*
- *The Maintenance Team*
- *Validation, Screening and Brokering*
- *Expectations & Metrics*
- *Wrap-up*

Session Objectives

- *Everyone Departs today understanding*
  - *The Maintenance Team…Roles and Responsibilities*
  - *The SHIPMAIN Process…Validation, Screening, Brokering*
  - *Maintenance Business Plan*
  - *Metrics…Expectations*
- *What we won't cover today*
  - *Fiscal Planning*
  - *<u>Mechanics of developing</u> Maintenance Business Plan*
    - *application of management tools and programs*

SHIPMAIN… Policy Directives

- *COMNAVSURFOR Notice 4701 dated 31 Dec 2003*
  - *Includes new policy for NAVSURFOR*
  - *Covers Validating, Screening, and Brokering*
    - *Provides "Business Rules"*
  - *Also covers FOM, Metrics and PB4M*
  - *Expect two or three more SHIPMAIN related notices*
    - *Roll up into COMNAVFORINST or JFMM change*
- *Existing directives that may change*
  - *OPNAVINST 4700.7K (Ship Maintenance Policy)*
  - *CINCLANTFLT/CINCPACFLTINST 4790.3 (JFMM)*
  - *COMNAVSURFLANTINST 9000.20 (Continuous Maintenance)*

SHIPMAIN
Maintenance Definition

- *All Actions by Ship's Force or any off-ship activity to:*
  - *Assess material condition*
  - *Accomplish*
    - *Preventive maintenance*
    - *Corrective maintenance*
    - *Alterative maintenance*
- *Also defines Emergent Maintenance*
- *All maintenance actions are documented on the Ships CSMP*

SHIPMAIN
Maintenance Management

- *A Single Process*
  - *From discovery to execution*
  - *Same forms*
  - *Same formats*
  - *Same products*
  - *Same procedure*
- *A Single Maintenance Database – CSMP; permits*
  - *Continuous, orderly planning*
  - *Flexibility to redirect work*
- *Work Candidates Must Be:*
  - *Accurate*
  - *Objective*
  - *Prioritized*

SHIPMAIN
Maintenance Databases

- *Integrated Class Maintenance and Modernization Plan (ICMP)*
  - *Contain all I and D level preventive maintenance tasks*
  - *Assessment Management Process*
    - *All material condition assessments derived from ICMP*
      - *Assessments not in ICMP forwarded to NAVSEA 04RM*
      - *If not approved by NAVSEA 04RM, discontinue*
    - *Maintenance Team review ICMP tasks due for accomplishment*
      - *Assign to assessing activity for accomplishment, or*
      - *Annotate reason for non-accomplishment, close work candidate and pass to history*
- *NAVSEA Data Environment (NDE)*
  - *Will contain all modernization work*
- *Navy Maintenance Database (NMD)*
  - *Will contain "standard" work specifications*
  - *Will contain D level Master Spec Catalog (MSC)*
  - *Note: I level Master Spec Catalog will reside in NEMAIS*

Surface Ships SHIPMAIN

SHIPMAIN Process

The Maintenance Team

Roles & Responsibilities

Maintenance Team

- *Core Team*
  - *Ship's Commanding Officer - Leader*
  - *Port Engineer – Team Coordinator*
  - *SMMO*
  - *FMA Ship Sup*
  - *NSA Project Mgr*
  - *MSMO KTR Rep (if applicable)*
- *Members may be added from*
  - *Waterfront Support team (FTSC/Technical Rep, etc.)*
  - *Ship's Company (CO's discretion)*

Port Engineer Responsibilities

- *Primary advisor to ship's Commanding Officer*
  - *Provides the long term continuity and expertise*
- *Coordinates the actions of the Maintenance Team*
- *First point-of-contact maintenance broker*
  - *Support RMC maintenance goals*
- *Manager of all off-ship maintenance; comply with*
  - *TYCOM maintenance & modernization policies & budgets*
  - *Appropriate technical direction*

Maintenance Team

Four Principal Roles

- *Management of ship maintenance*
- *Budgeting for ship maintenance*
- *Technical expertise*
- *Availability coordination*

Maintenance Team

Management of Ship Maintenance

- *Assist ship in validating CSMP*
- *Ensure a cost estimate for all off-ship items in CSMP*
- *Assist ship with coordinating ICAVs*
- *Provide on-scene assessment of equipment condition*

Maintenance Team
Budgeting for Ship Maintenance

- *Develop first cut estimate for the ship's maintenance funding requirements*
- *Review funding requirements with Commanding Officer; submit as ship's "Maintenance Business Plan"*
- *Negotiate adjustments to business plan with RMC*

Maintenance Team
Technical Expertise

- *Assist the Commanding Officer in maintaining a current, valid CSMP*
  - *Requires a team effort, too much for one person*
- *Provide technical advice and guidance to ship's force on maintenance and modernization*
- *Must comply with NAVSEA approved guidance and policy*

Maintenance Team
Availability Coordination

- *Develop, plan, and coordinate*
  - *Scheduled availabilities*
  - *Continuous maintenance opportunities*
  - *Emergent repairs*
- *Determine appropriate availability and maintenance activity to be used in the accomplishment of work candidates*
- *Serve as RMC point of contact in coordinating maintenance and planning activities in support of off-ship maintenance*

Surface Ships SHIPMAIN

SHIPMAIN Process

The Maintenance Team

The Planning Board

Planning Board for Maintenance

- Ship Commanding Officer – Chairm
- Attendees
  - Ship's Maintenance Team
  - Department Heads
  - Others as appropriate
- PB for M Process
  - Frequency…At Least Monthly
  - Inputs
  - Agenda
  - Products
  - Follow-up

ort Engineer prepares & forwards agenda to CO 48 hours in advance

POSSIBLE PRODUCTS

The Ship's Maintenance Business Plan

Maintenance & Modernization plan (5yr, 24mos (cycle), quarterly, and monthly

Validated ICMP Task Requirements

Validated CSMP with priority scheme

Ship's force work capacity loading plan

Financial Management Plan
- **Depot maintenance**
- **Continuous Maintenance**
- **Organizational**

Configuration Management Plan
- **Equipment validation Reports**
- **COSAL Updates**
- **Configuration Change Reports**

Corrosion Control Plan
- **Tanks and voids**
- **Internal & External other**

Material Self Assessment

Planning Board for Maintenance
Purpose

Review

- All Maintenance
- CSMP quality and accuracy
- Future maintenance planning
- Fiscal concerns

Planning Board for Maintenance Agenda

Bold = PE Presents

1. ***Ship's Name***
2. ***Date of meeting***
3. ***Known schedule of key events***
    1. ***Upkeep Periods***
    2. ***INSURV***
    3. ***Ship special evolutions***
    4. ***Assessment Visits***
    5. ***COC/DH Changes***
    6. ***Assist visits/AIT/surveys, etc.***
    7. *New Issues*
4. ***CASREPs & Departures from Specification***
    1. ***Status****
    2. *New Issues*

*** Enclosure to**

Planning Board for Maintenance Agenda

5. ***Current maintenance issues***
   1. ***Provide applicable JCN with block 35 & work status****
   2. ***Current issues / problem areas***
   3. ***Review / update Maint. And Modernization plan***
6. ***Advance planning milestones & CNO availability issues (dates)***
   1. ***Specification review***
   2. ***Major events to support – ammo off-load***
   3. ***Arrival conference***
   4. ***Avail dates***
   5. ***Production status***
   6. ***Dock trial/fast cruise/sea trail dates***
   7. *New Issues*

*** Enclosure to**

Planning Board for Maintenance Agenda

7. ***CSMP review***
   1. ***As screened report****
   2. ***TA –4 jobs****
      a. *Completed*
      b. *New (integrated/de-conflict) with other known work*
         1. *Compare location*
         2. *Compare equipment/system*
         3. *Compare priority*
      c. *Screened to SF avail(Assist ship with assigning SF avail with dates)*
         1. *Concurrent CNO*
         2. *CM – planned accomplishmetn*
         3. *Emergent – unplanned accomplishment*
   3. ***JCN return to ship issues****
   4. ***Jobs older than 180 days****
   5. ***JCN'S to be passed to history****

*** Enclosure to**

Planning Board for Maintenance Agenda

8. Long term maintenance plan
   1. **5 year plan (developed by MT)** *
      1. CNO avails
      2. Assessments ICMP
      3. Certifications
      4. Modernization
      5. Homeport
      6. Preservation
      7. Integrated system refurbishment
      8. Others
   2. Discuss issues & update
9. Current metrics
10. Ship, CO, Maintenance team issues

*** Enclosure to**

Surface Ships SHIPMAIN

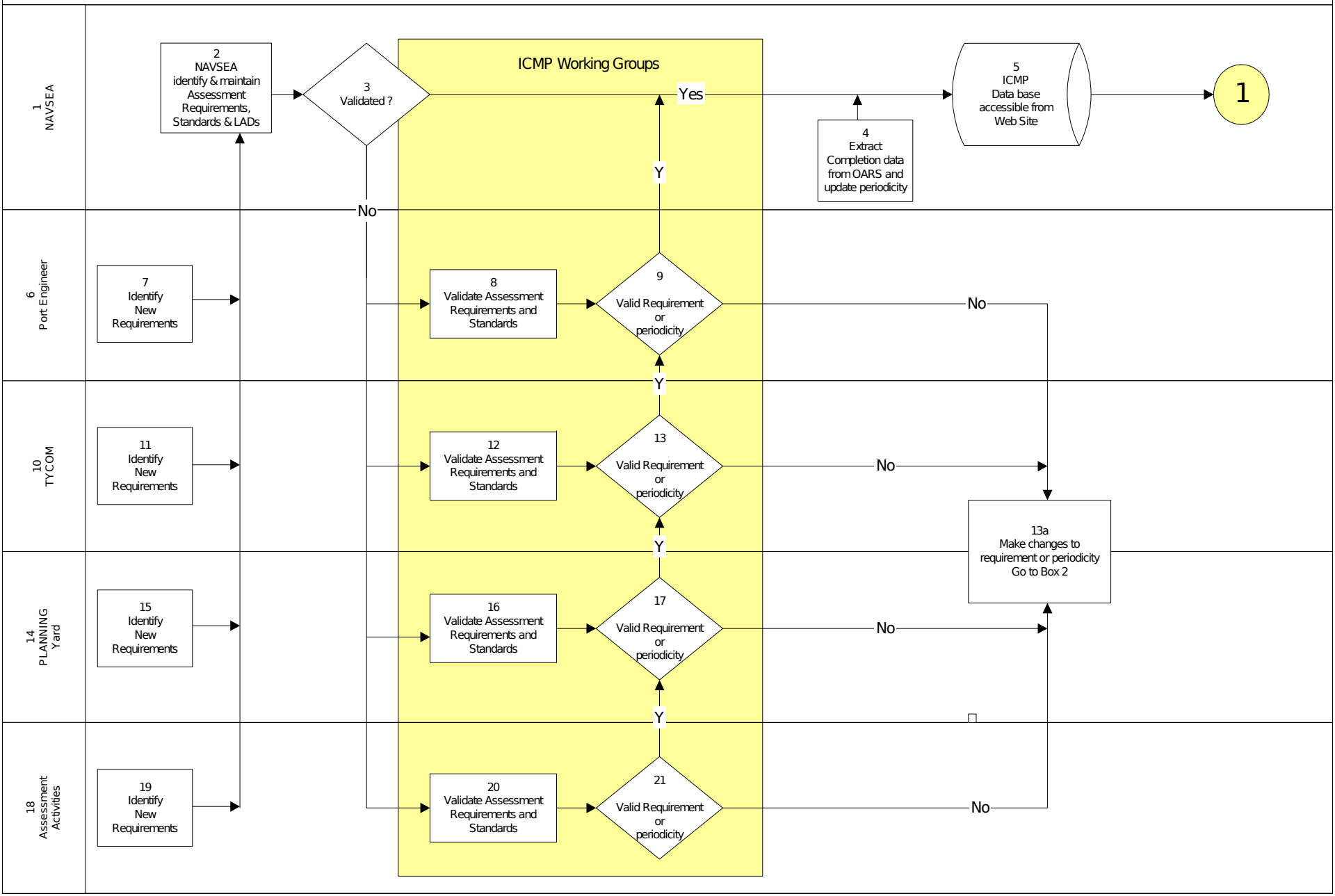
SHIPMAIN Process

The Maintenance Process

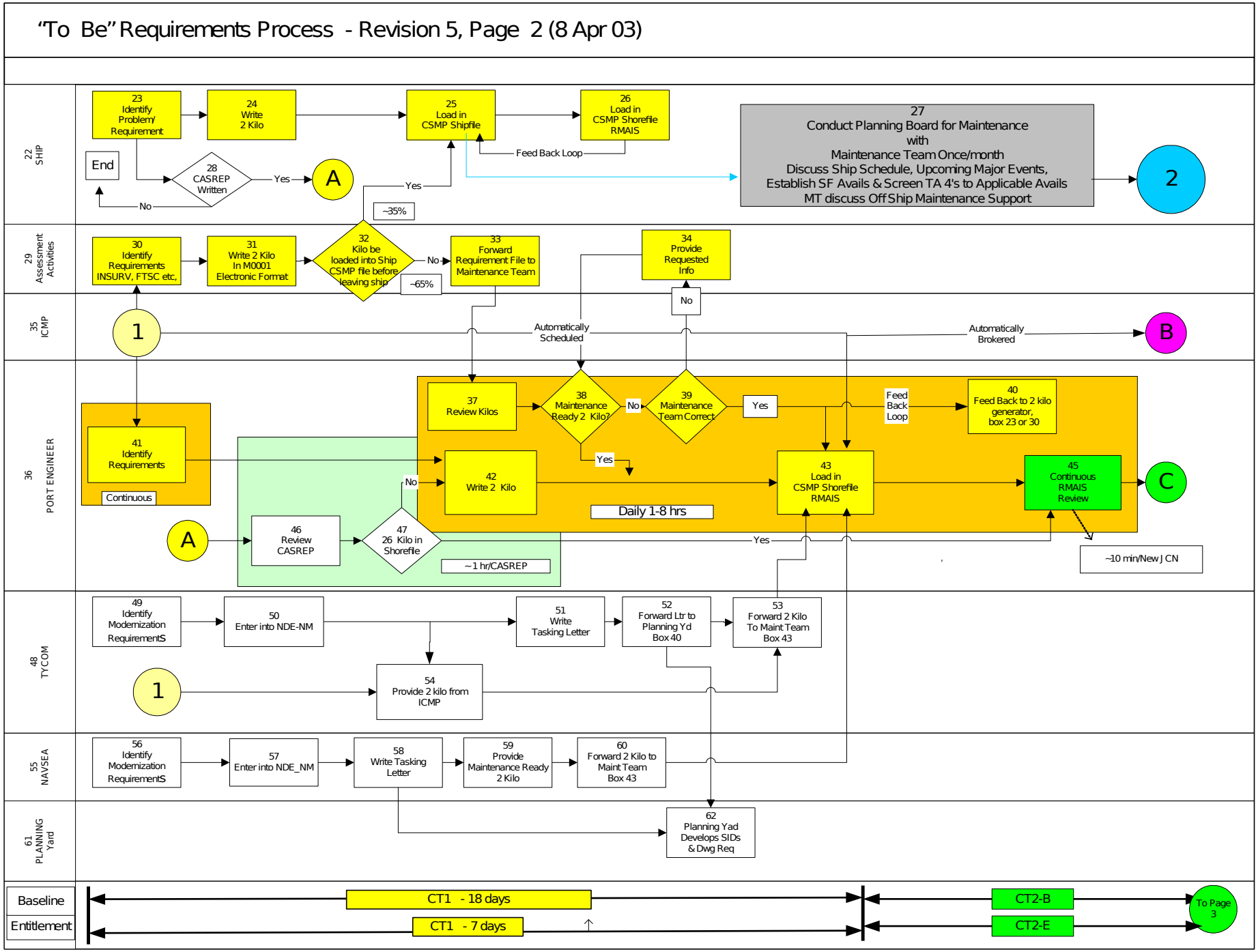
Maintenance Process
The Management of Maintenance

- *Discovering Work… follows existing processes*
- *Documenting Work…follows existing process*
  - *Work Candidate*
  - *CSMP Ship file*
  - *CSMP Shore file*
  - *3-M Maintenance History File*
- *Validating Work Candidate*
- *Screening and Brokering Work Candidates*
- *Maintenance Team support*
  - *TYCOM Type Desk*
  - *FTSC*
  - *NAVSEA and field activities*
  - *CHET/EHET*

"To Be" Requirements Process - Assessment Development; Rev 5, Page 1 (8 Apr 03)


1 NAVSEA
6 Port Engineer
10 TYCOM
14 PLANNING Yard
18 Assessment Activities
2 NAVSEA identify & maintain Assessment Requirements, Standards & LADs
3 Validated ?
ICMP Working Groups
Yes
No
Y
4 Extract Completion data from OARS and update periodicity
5 ICMP Data base accessible from Web Site
1
7 Identify New Requirements
8 Validate Assessment Requirements and Standards
9 Valid Requirement or periodicity
11 Identify New Requirements
12 Validate Assessment Requirements and Standards
13 Valid Requirement or periodicity
15 Identify New Requirements
16 Validate Assessment Requirements and Standards
17 Valid Requirement or periodicity
19 Identify New Requirements
20 Validate Assessment Requirements and Standards
21 Valid Requirement or periodicity
13a Make changes to requirement or periodicity Go to Box 2

"To Be" Requirements Process - Revision 5, Page 2 (8 Apr 03)



Work Candidate Validating

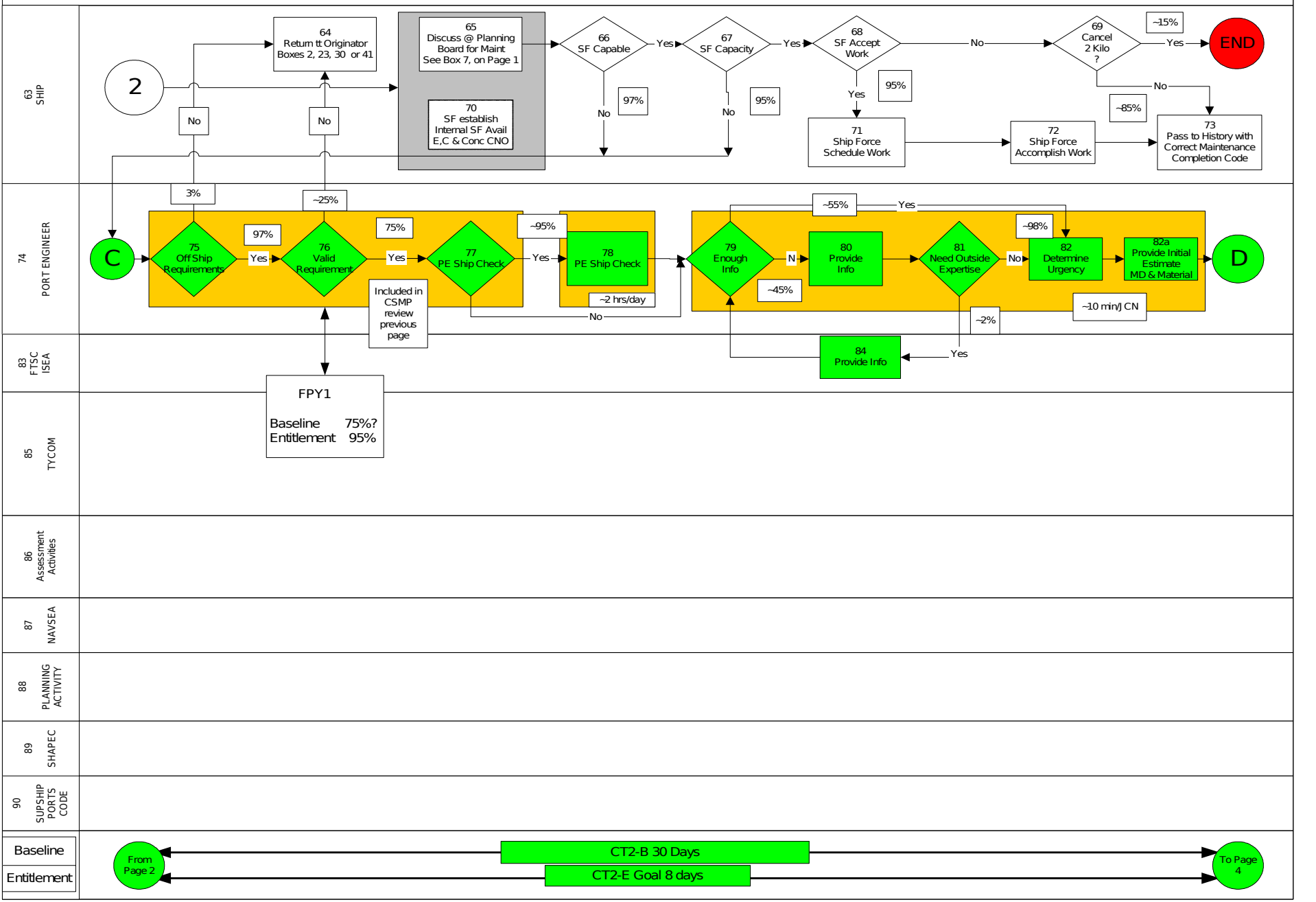
- *Process of reviewing a work statement to ensure there is enough information to determine if the work candidate is required (**objective evidence**)*
- *If work candidate valid, contains enough information to:*
  - *Properly determine the correct resolution*
  - *Screen to the right maintenance period to support ship operations*
  - *Broker to the right activity to perform the work at the most practicable level or*
  - *Pass to history*

Work Candidate Validating

Three levels of validation

- ***Initial Validation*** *– responsibility of*
  - *Originator (usually ship)*
  - *Goal is to ensure MT understands the requirement*
- ***Requirement Validation*** *– Maintenance Team determines real need and urgency*
- ***Final Validation*** *– responsibility of MT to ensure scope of work adequately defined and technically accurate*

"To Be" Requirements Process - Revision 5, Page 3 (8 Apr 03)



Work Candidate Screening

- *Determine and assign the work candidate to the right period and maintenance availability*
- *Includes*
  - *Balancing operational schedule*
  - *Material readiness requirements*
  - *Cost concerns*
  - *Maximizing maintenance productivity (material readiness/ maintenance cost)*

Work Candidate Screening

Options

- Assessment visit
- Emergent availability
- Continuous availability
- CNO availability

Work Candidate Brokering

- *Determine and assign the right activity to perform the work*
- *Assign Work Candidate to lowest level maintenance activity based on*
  - *Material availability*
  - *Capability*
  - *Capacity*
  - *Funding*

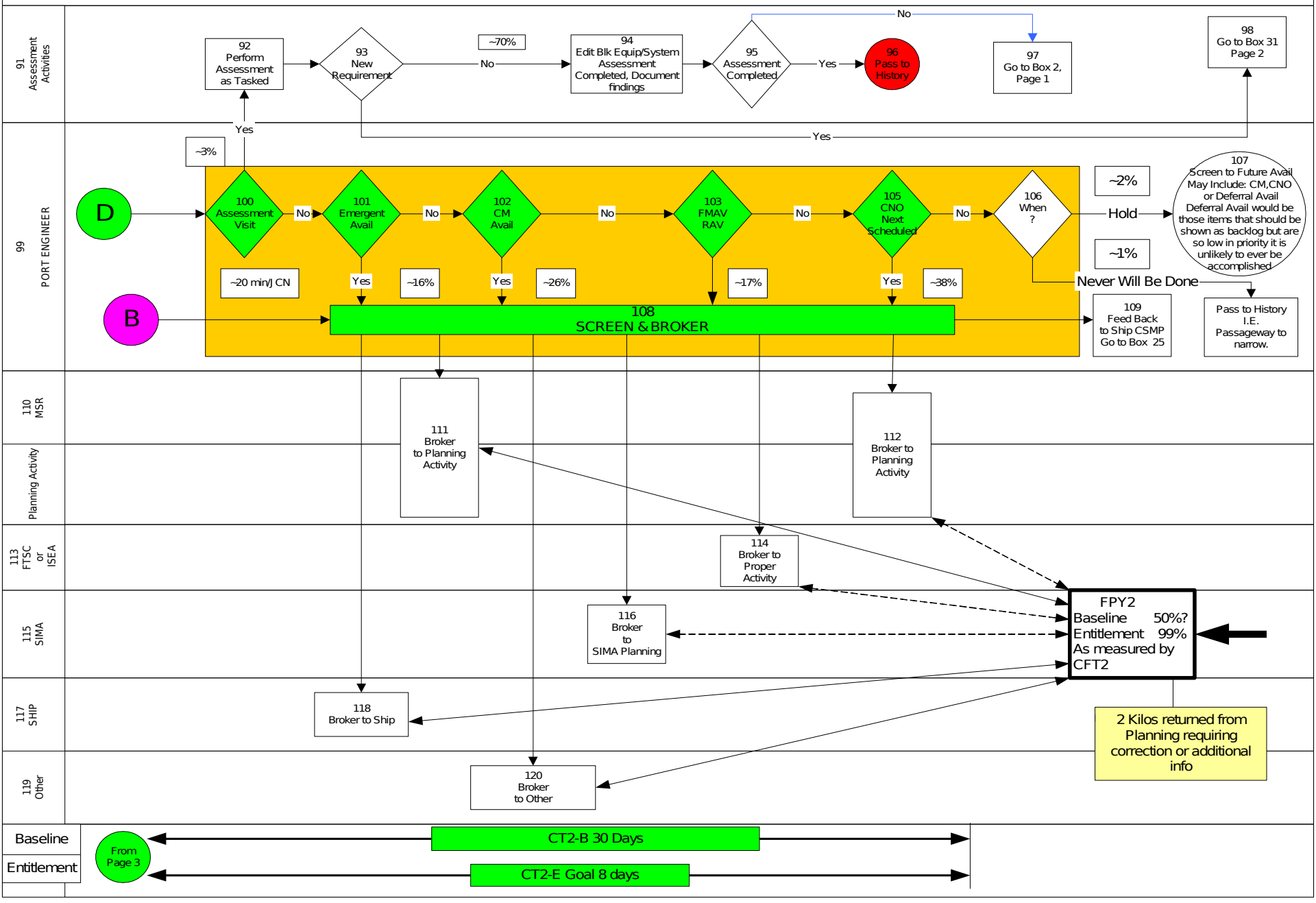
  to accomplish the work during the required timeframe
- *Fill public sector capacity first*

Work Candidate Brokering

- *Synergistic relationship between work candidates*
  - *Common tag out*
  - *Common access cut*
  - *Common plant condition*
  - *Common system test*
- *Splitting Repair Activity Responsibilities*
- *Third Party Access*
  - *Contract limitations*
  - *Services*
    - *Availability*
    - *Cost*
- *Port Loading*
- *SIMA Training Requirements*

Apply to screening also

"To Be" Requirements Process - Revision 5, Page 4 (8 Apr 03)



Surface Ships
SHIPMAIN

SHIPMAIN Process

Expectations and Metrics

Expectations

- *CSMP*
  - *Current*
  - *Validated*
  - *Technically Accurate*
- *Use the MFOM*
- *Maintenance Business Plan Performance*
- *Maintenance Team Metrics*
  - *Cycle Times*
  - *First Pass Yield*
  - *On Time Delivery*

Surface Ships
SHIPMAIN

SHIPMAIN Process
Maintenance Figure of Merit (MFOM)

Maintenance Figure of Merit

- *Tool for making decisions*
  - *Numerical expression of job criticality*
  - *Provides CSMP ranking in order of priority*
- *Generated by MST software*
  - *Formula takes inputs from data on the 2K*
  - **NOT** *allowed to change the result*

- *General Rule: Do the work in MFOM priority but exceptions will exist*

Surface Ships SHIPMAIN

SHIPMAIN Process
Metrics

Maintenance Team Metrics

Initially data for four metrics must be collected and reported each month on a Bridge Plot.

- *Ship to Shore Cycle Time (CT)*
- *Shore to Screen Cycle Time (CT)*
- *Ship work candidate First Pass Yield (FPY)*
- *On-Time Delivery (OTD) for CNO, FMAV and CM/TA*
- *Additional Metrics may be developed at a later date*

Maintenance Team Metrics

Ship to Shore Cycle Time (CT):

Average number of calendar days elapsed from date that TA1, 2, or 3 work candidate items are discovered until the work candidate is entered into the CSMP shore file (RMAIS). This includes any delays in the initial entry into the ship's CSMP, along with any delays in approving the work candidate and in uploading the CSMP from the ship.

Calculation:

For TA1, 2, and 3 work candidates, the "when discovered date" is subtracted from the "RMAIS entry date" (static cycle time). The individual durations are summed and the result is divided by the number of durations, to obtain an average cycle time. This is done within each homeport, by ship class.

Maintenance Team Metrics

Shore to Screen Cycle Time (CT):

Average number of calendar days elapsed from date that TA1, 2, or 3 work candidate items entered into the CSMP shore file (RMAIS) until the job is assigned to a planning activity. This includes any delays that occur while under the control of the port engineer.

Calculation:

For TA1, 2, and 3 work candidates, the "RMAIS entry date" is subtracted from the date of assignment to a planning activity (static cycle time). The individual durations are summed and the result is divided by the number of durations, to obtain an average cycle time. This is done within each homeport, by ship class.

Maintenance Team
Metrics

Ship work candidate First Pass Yield (FPY):

Percentage of work candidates which are screened by the Port Engineer without being rejected back to the ship or having any modifications to the problem description portion of block 35.

Calculation:

1 - [# of work candidates rejected or modified by the Port Engineer / # of work candidates submitted]

Maintenance Team Metrics

On-Time Delivery:

The percentage of 2Ks which are assigned to the planning activity "on-time".

Calculation:

1 – [# of work candidates assigned and authorized in RMAIS on time / total # of work candidates authorized]. Where "on-time" varies depending on the type of availability thusly:

CNO Avail	*A-240*
I Level CM Avail	*A-40*
CM	*RMAIS Entry date + 14 days*
TA3	*RMAIS Entry date + 14 days*

Maintenance Team
Metrics

- *Data Collection and Reporting will be done with the Bridge Plot. The generic Bridge Plot file can be obtained from the RMC POC for Metrics.*

- *Each Maintenance Team is responsible to get the data for its hulls from the SPEAR Web site each month and to update its Bridge Plot data sheet and graphs. Other metrics will be added later as the process changes.*

- *This hull level Bridge Plot will be part of the regular reporting by the Maintenance Teams to the RMC leadership. Thomas Group consultants will assist Maintenance Teams with review preparation.*

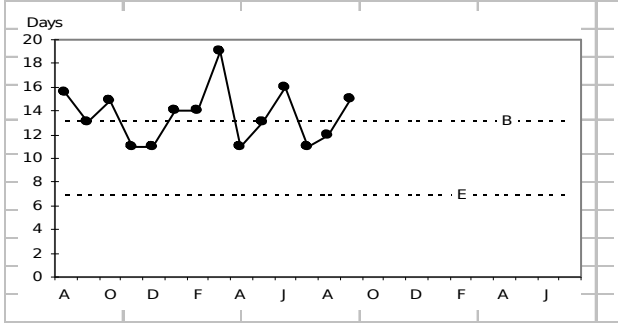
MT Bridge Plot

Surface Ships SHIPMAIN

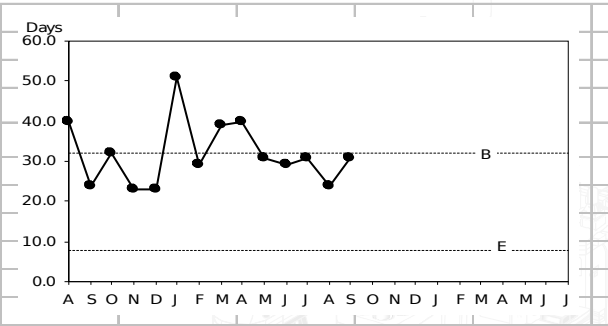
Maintenance Team

SHIP: 22152 USS CARDINAL (MHC80)

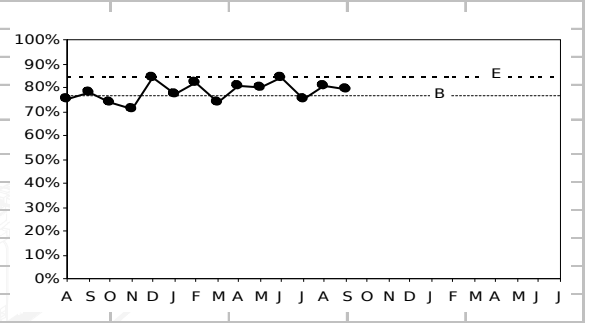
AUGUST 2003



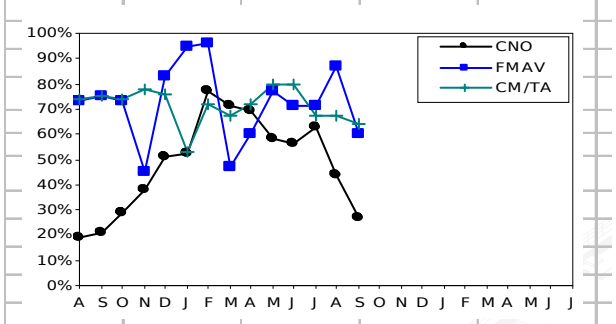
1. Ship to Shore CT



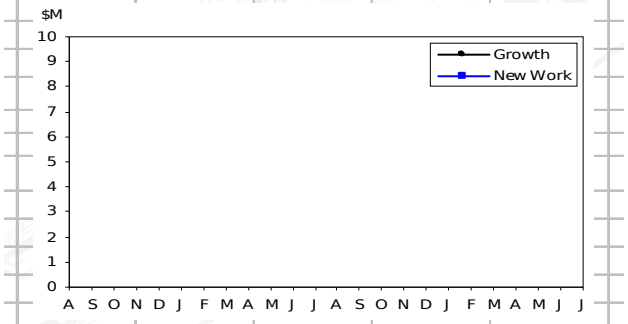
2. Shore to Screen CT



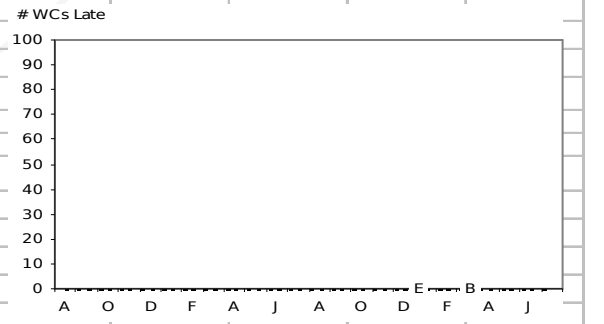
3. Ship 2K FPY



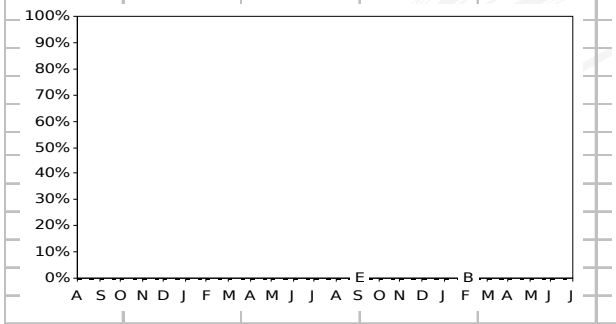
4. 2K Screening OTD



5. Growth & New Work



6. #Late WCs Received

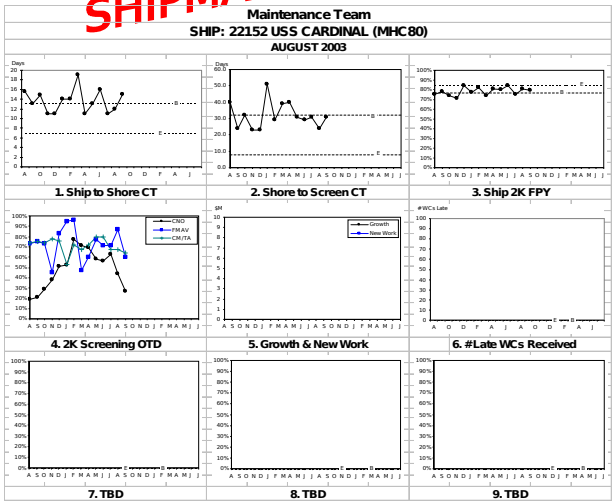


7. TBD

8. TBD

9. TBD

MT Bridge Plot



	2003 Month 1	2003 Month 2	2003 Month 3	2003 Month 4	2003 Month 5	2003 Month 6	2003 Month 7	2004 Month 8
1. Ship to Shore CT	A	S	O	N	D	J	F	M
Ship to Shore CT	15.5	13.1	14.9	11.0	11.0	14.0	14.0	19.0
Baseline	13.3	13.25	13.25	13.25	13.25	13.25	13.25	13.25
Entitlement	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Extra Line								
2. Shore to Screen CT	A	S	O	N	D	J	F	M
Static CT	40.0	24.0	32.0	23.0	23.0	51.0	29.0	39.0
Baseline	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
Entitlement	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Extra Line								
3. Ship 2K FPY	A	S	O	N	D	J	F	M
Ship 2K FPY	75%	78%	74%	71%	84%	77%	82%	74%
Baseline	77%	77%	77%	77%	77%	77%	77%	77%
Entitlement	85%	85%	85%	85%	85%	85%	85%	85%
Extra Line								
4. 2K Screening OTD	A	S	O	N	D	J	F	M
CNO OTD	19%	21%	29%	38%	51%	52%	77%	71%
FMAV OTD	73%	75%	73%	45%	83%	95%	96%	47%
CM/Tech Asst OTD	74%	75%	74%	78%	76%	53%	72%	67%
Extra Line								
5. Growth & New Work	A	S	O	N	D	J	F	M
$M Growth								
$M New Work								
Extra Line								
6. # Late WCs Received	A	S	O	N	D	J	F	M
Combined # AWRs Late								
CNO # AWRs Late								
Planned FMAV # AWRs Late								
Baseline	0	0	0	0	0	0	0	0
Entitlement	0	0	0	0	0	0	0	0
Extra Line								

The Bridge Plot is a file with two linked worksheets; one has the metrics graphs

-the second is for data entry.

Maintenance Team
Metrics

- *The following slides show how to access and use the SPEAR website to collect data for Bridge Plots.*
- *This website can also be used to view detailed 2K information to determine causes for performance trends.*

ShipMainMetrics - (AMSEC LLC)

File Edit View Favorites Tools Help

Back Search Favorites Media

Address C:\Documents and Settings\kaneja\Desktop\ShipMainMetrics.htm Go Links

Main Menu
Welcome
Introduction

Histograms:
Lant Fleet
Pac Fleet
FigureOfMerit

DataAnalysis:
Lant Fleet
Pac Fleet

BridgePlots:
Lant Fleet
Pac Fleet
CFT1/DEC03
RSG-Norfolk

OTD Indicators:
Lant Fleet
Pac Fleet

Welcome to the ShipMain (CFT1 Metrics Analysis) Sub-System

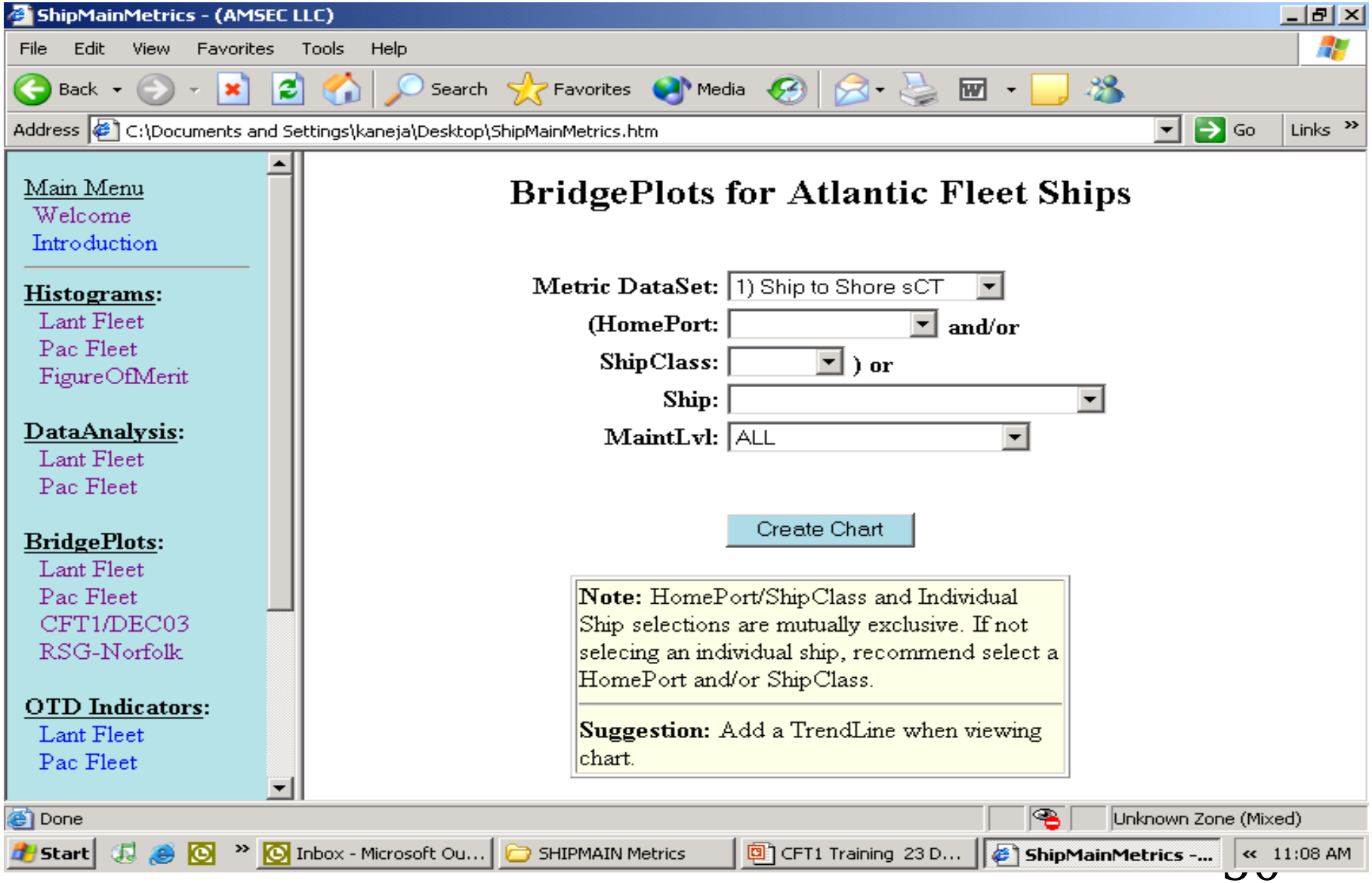
This Web Site is a 'Work in Progress'. It is slowly evolving and new features are being added as needed.

Feedback is invited on the usefulness of this site and/or recommendations for improvement or new features.

Unknown Zone (Mixed)

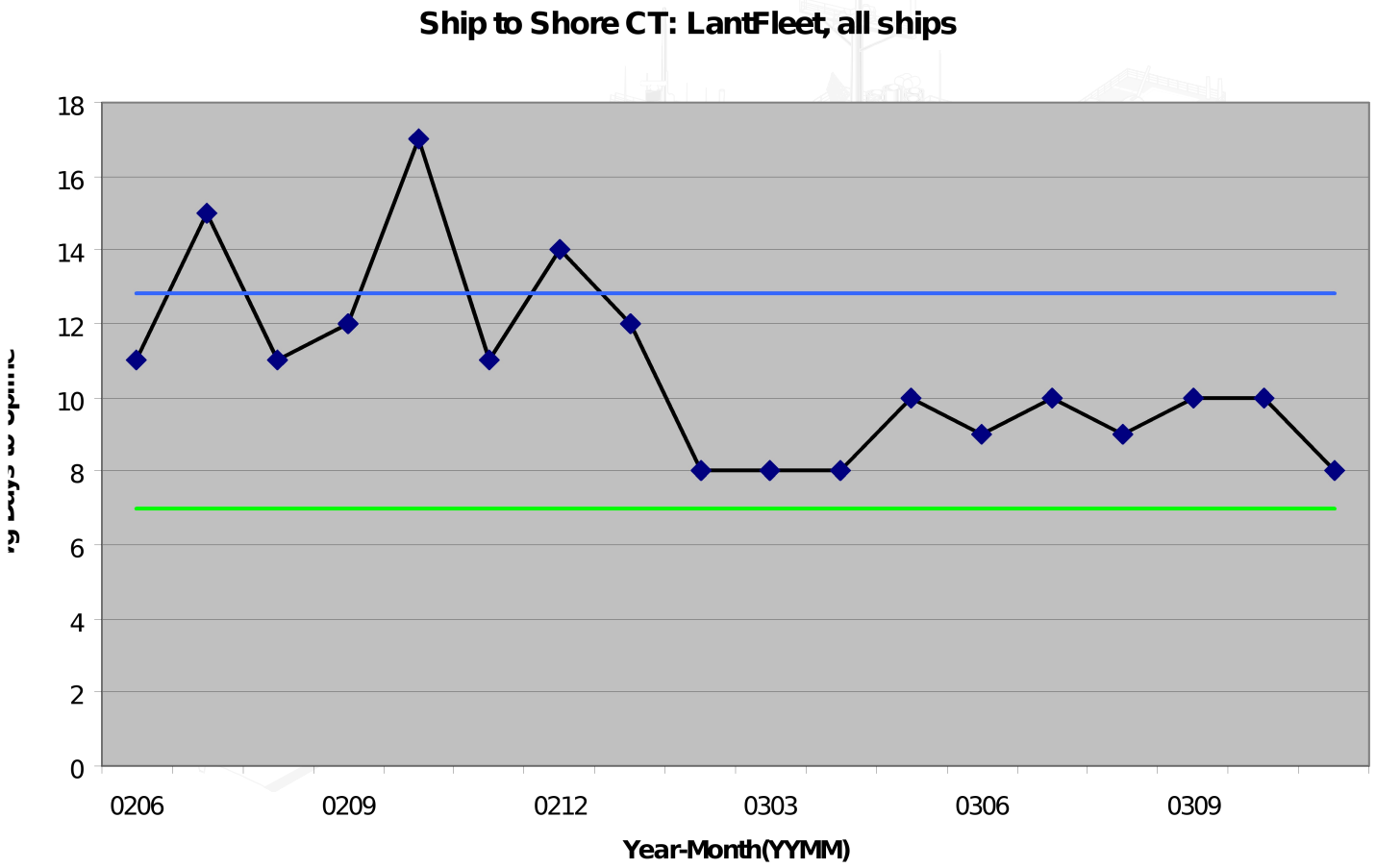
Start Inbox - Microsoft Ou... SHIPMAIN Metrics CFT1 Training 23 D... ShipMainMetrics -... 11:00 AM

Surface Ships SHIPMAIN

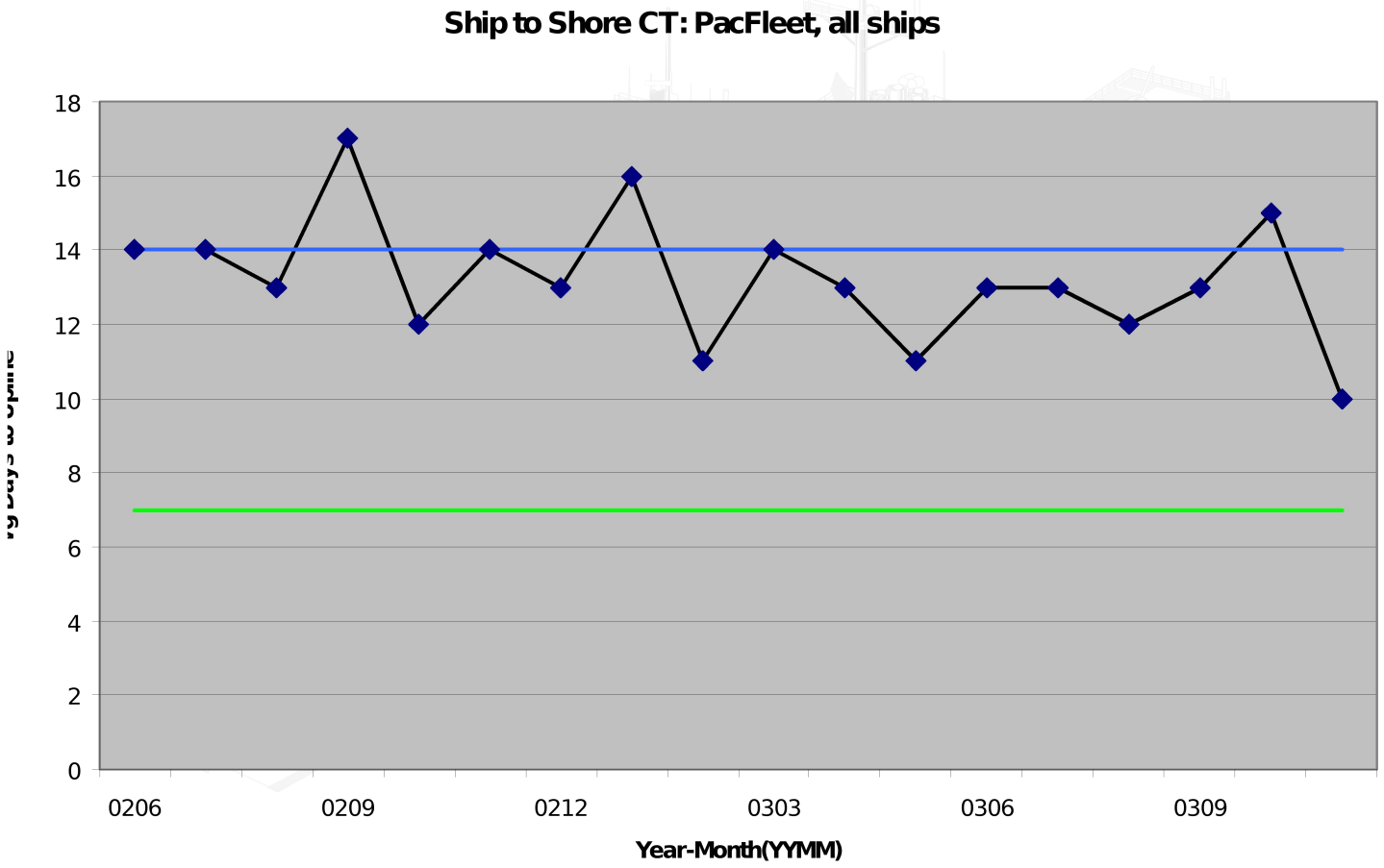


Surface Ships SHIPMAIN

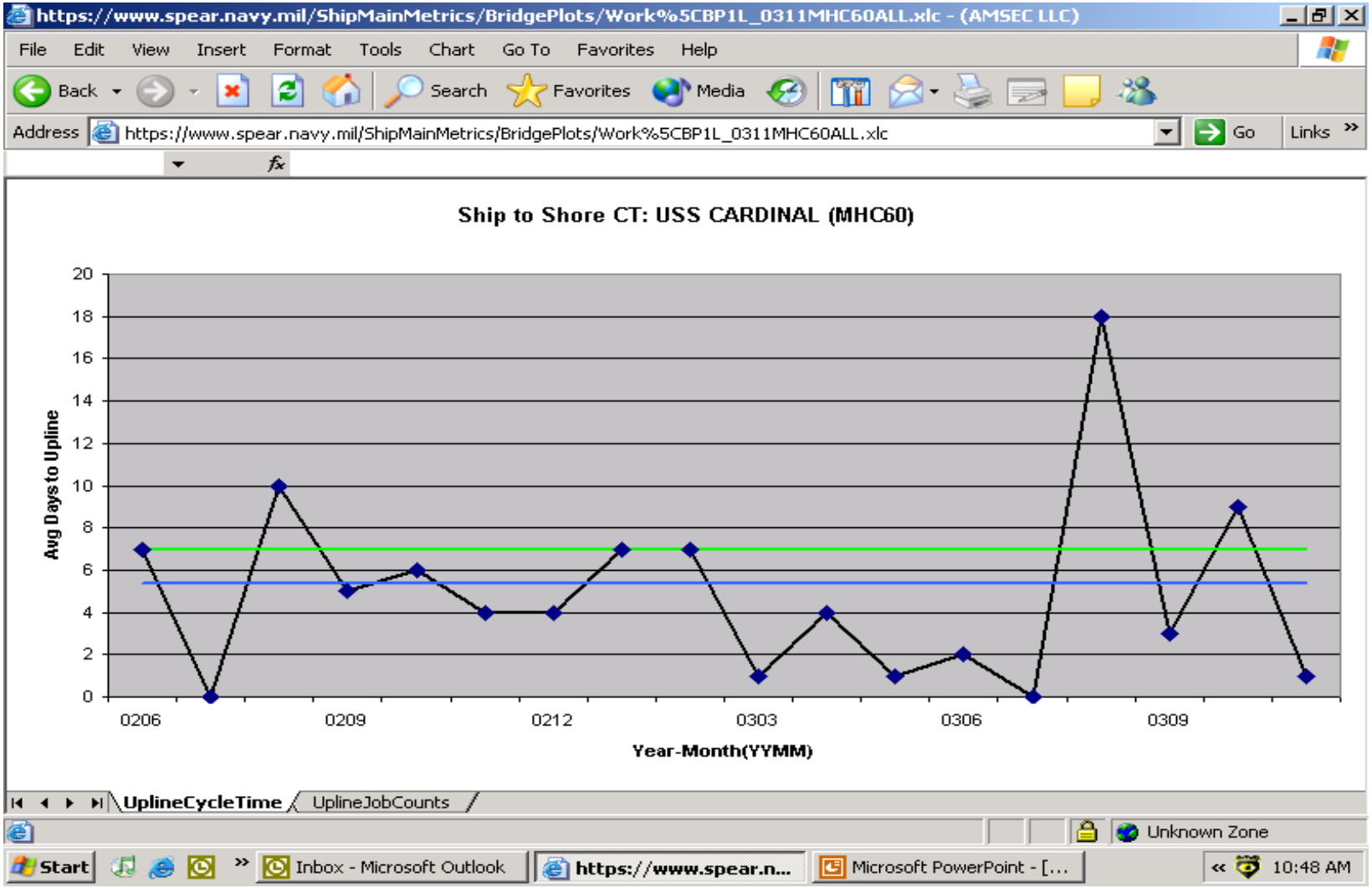
Latest Metrics



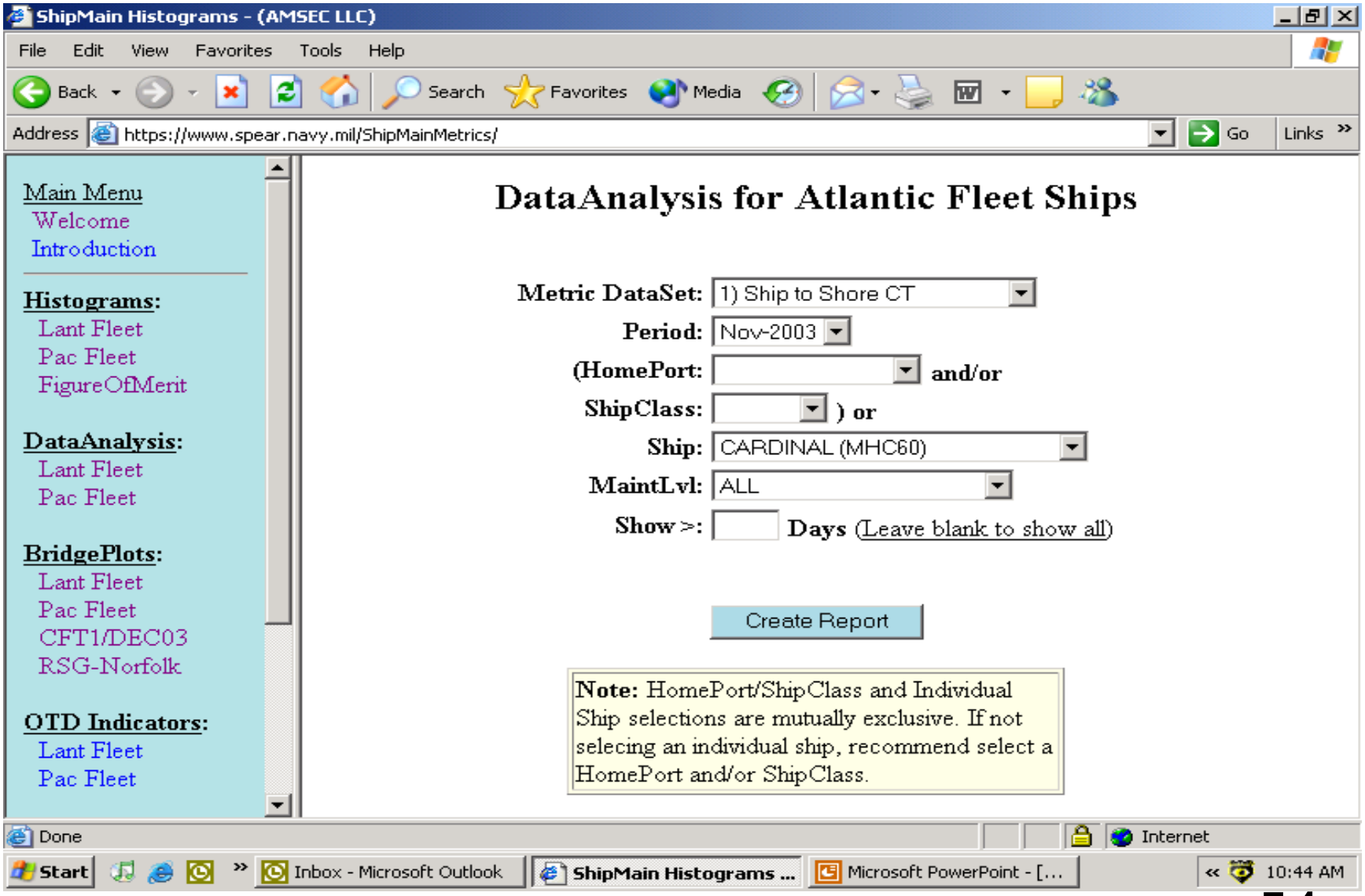
Latest Metrics



Surface Ships
SHIPMAIN


https://www.spear.navy.mil/ShipMainMetrics/BridgePlots/Work%5CBP1L_0311MHC60ALL.xlc - (AMSEC LLC)
File Edit View Insert Format Tools Chart Go To Favorites Help
Back Search Favorites Media
Address https://www.spear.navy.mil/ShipMainMetrics/BridgePlots/Work%5CBP1L_0311MHC60ALL.xlc
Go Links
Ship to Shore CT: USS CARDINAL (MHC60)
Avg Days to Upline
0 2 4 6 8 10 12 14 16 18 20
0206 0209 0212 0303 0306 0309
Year-Month(YYMM)
UplineCycleTime UplineJobCounts
Unknown Zone
Start
Inbox - Microsoft Outlook
https://www.spear.n...
Microsoft PowerPoint - [...
10:48 AM

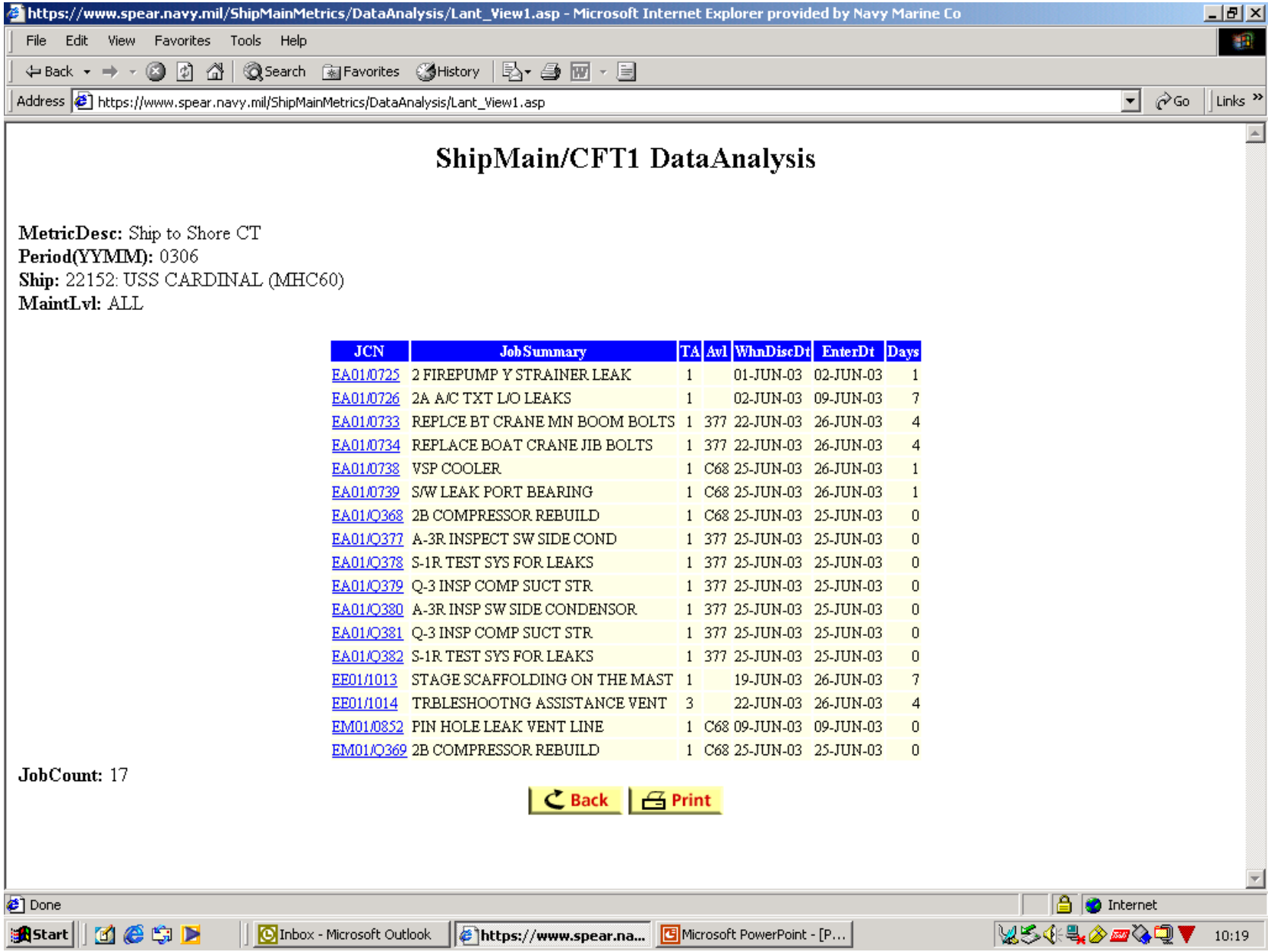
Surface Ships SHIPMAIN



Ship to Shore CT

This is the list of all jobs entering RMAIS during the month of June, along with the TA code, Avail # (when assigned), when discovered date, RMAIS entry date and number of days from when discovered to RMAIS entry.

Plan is to calculate average CT and list in lower left

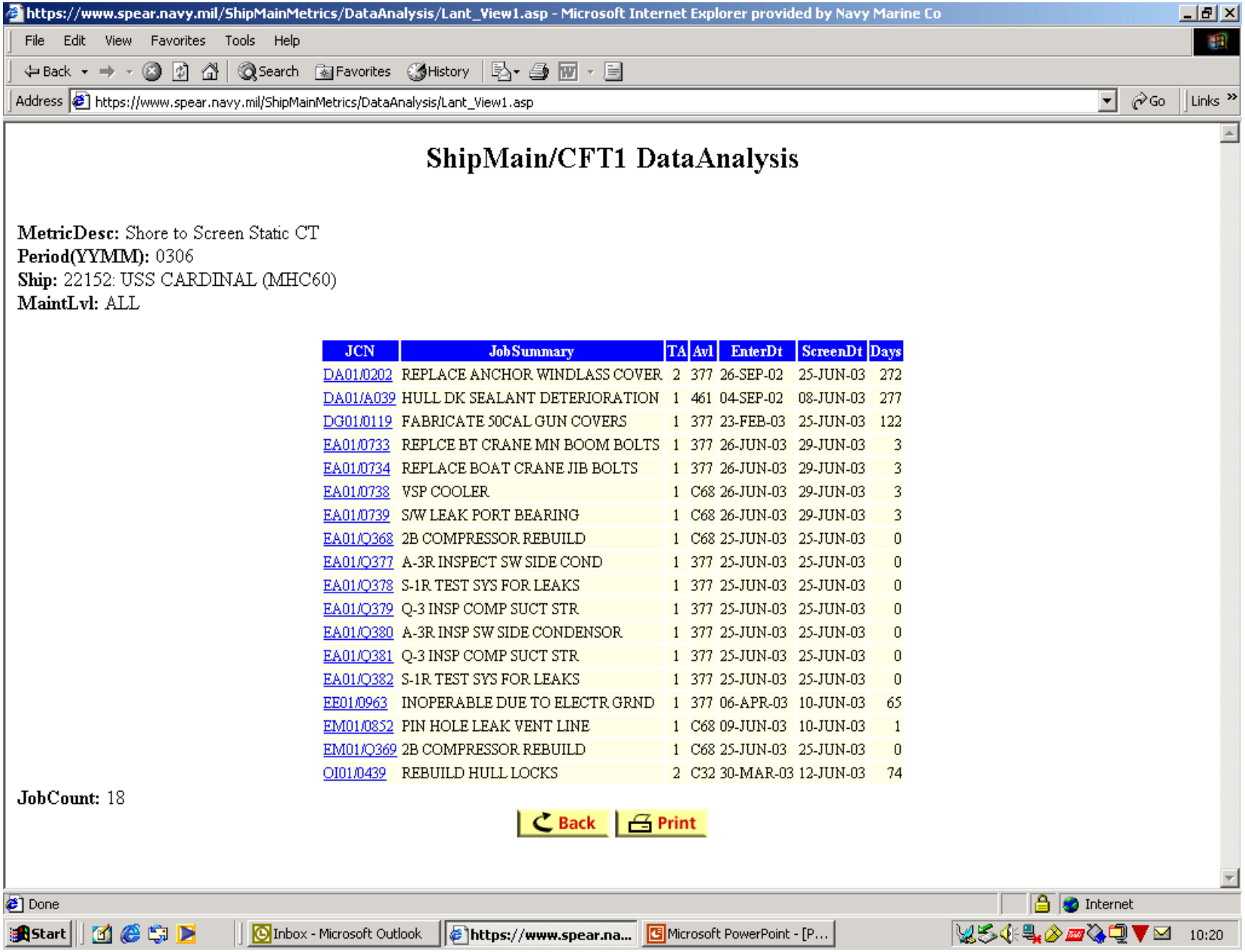


JCN	Job Summary	TA	Avl	WhnDiscDt	EnterDt	Days
EA01/0725	2 FIREPUMP Y STRAINER LEAK	1		01-JUN-03	02-JUN-03	1
EA01/0726	2A A/C TXT L/O LEAKS	1		02-JUN-03	09-JUN-03	7
EA01/0733	REPLCE BT CRANE MN BOOM BOLTS	1	377	22-JUN-03	26-JUN-03	4
EA01/0734	REPLACE BOAT CRANE JIB BOLTS	1	377	22-JUN-03	26-JUN-03	4
EA01/0738	VSP COOLER	1	C68	25-JUN-03	26-JUN-03	1
EA01/0739	S/W LEAK PORT BEARING	1	C68	25-JUN-03	26-JUN-03	1
EA01/Q368	2B COMPRESSOR REBUILD	1	C68	25-JUN-03	25-JUN-03	0
EA01/Q377	A-3R INSPECT SW SIDE COND	1	377	25-JUN-03	25-JUN-03	0
EA01/Q378	S-1R TEST SYS FOR LEAKS	1	377	25-JUN-03	25-JUN-03	0
EA01/Q379	Q-3 INSP COMP SUCT STR	1	377	25-JUN-03	25-JUN-03	0
EA01/Q380	A-3R INSP SW SIDE CONDENSOR	1	377	25-JUN-03	25-JUN-03	0
EA01/Q381	Q-3 INSP COMP SUCT STR	1	377	25-JUN-03	25-JUN-03	0
EA01/Q382	S-1R TEST SYS FOR LEAKS	1	377	25-JUN-03	25-JUN-03	0
EE01/1013	STAGE SCAFFOLDING ON THE MAST	1		19-JUN-03	26-JUN-03	7
EE01/1014	TRBLESHOOTNG ASSISTANCE VENT	3		22-JUN-03	26-JUN-03	4
EM01/0852	PIN HOLE LEAK VENT LINE	1	C68	09-JUN-03	09-JUN-03	0
EM01/Q369	2B COMPRESSOR REBUILD	1	C68	25-JUN-03	25-JUN-03	0

Shore to Screen CT

This is the list of all jobs screened during the month of June, along with the TA code, Avail #,, RMAIS entry date, screening date and number of days from RMAIS entry to screening.

Plan is to calculate average CT and list in lower left corner under Job Count.



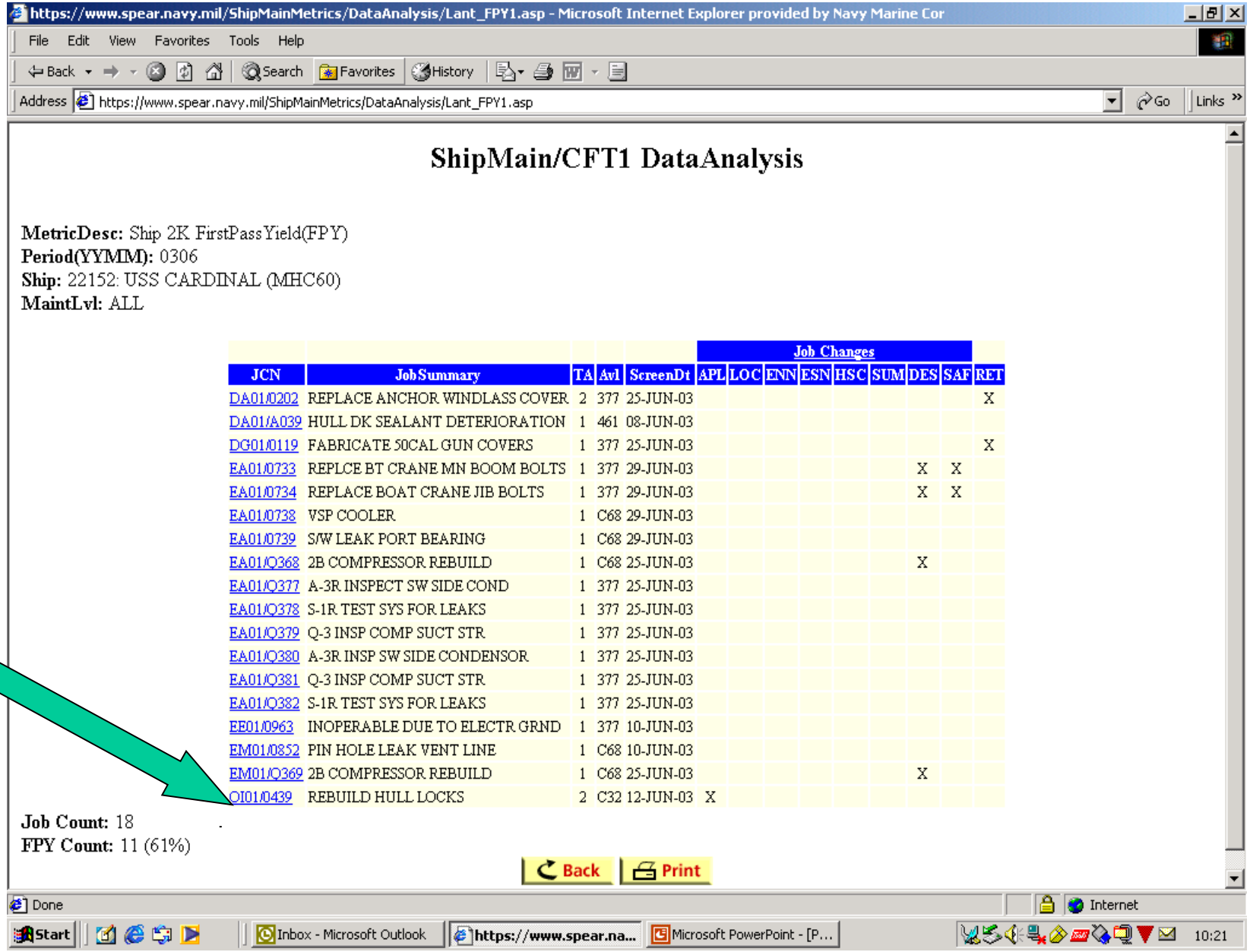
JCN	JobSummary	TA	Avl	EnterDt	ScreenDt	Days
DA01/0202	REPLACE ANCHOR WINDLASS COVER	2	377	26-SEP-02	25-JUN-03	272
DA01/A039	HULL DK SEALANT DETERIORATION	1	461	04-SEP-02	08-JUN-03	277
DG01/0119	FABRICATE 50CAL GUN COVERS	1	377	23-FEB-03	25-JUN-03	122
EA01/0733	REPLCE BT CRANE MN BOOM BOLTS	1	377	26-JUN-03	29-JUN-03	3
EA01/0734	REPLACE BOAT CRANE JIB BOLTS	1	377	26-JUN-03	29-JUN-03	3
EA01/0738	VSP COOLER	1	C68	26-JUN-03	29-JUN-03	3
EA01/0739	S/W LEAK PORT BEARING	1	C68	26-JUN-03	29-JUN-03	3
EA01/Q368	2B COMPRESSOR REBUILD	1	C68	25-JUN-03	25-JUN-03	0
EA01/Q377	A-3R INSPECT SW SIDE COND	1	377	25-JUN-03	25-JUN-03	0
EA01/Q378	S-1R TEST SYS FOR LEAKS	1	377	25-JUN-03	25-JUN-03	0
EA01/Q379	Q-3 INSP COMP SUCT STR	1	377	25-JUN-03	25-JUN-03	0
EA01/Q380	A-3R INSP SW SIDE CONDENSOR	1	377	25-JUN-03	25-JUN-03	0
EA01/Q381	Q-3 INSP COMP SUCT STR	1	377	25-JUN-03	25-JUN-03	0
EA01/Q382	S-1R TEST SYS FOR LEAKS	1	377	25-JUN-03	25-JUN-03	0
EE01/0963	INOPERABLE DUE TO ELECTR GRND	1	377	06-APR-03	10-JUN-03	65
EM01/0852	PIN HOLE LEAK VENT LINE	1	C68	09-JUN-03	10-JUN-03	1
EM01/Q369	2B COMPRESSOR REBUILD	1	C68	25-JUN-03	25-JUN-03	0
OI01/0439	REBUILD HULL LOCKS	2	C32	30-MAR-03	12-JUN-03	74

Ship 2K FPY

Ship 2K FPY for the month of June. This is a list of all jobs screened (same as previous slide), showing an X in any column where a change was recorded after the job entered RMAIS.

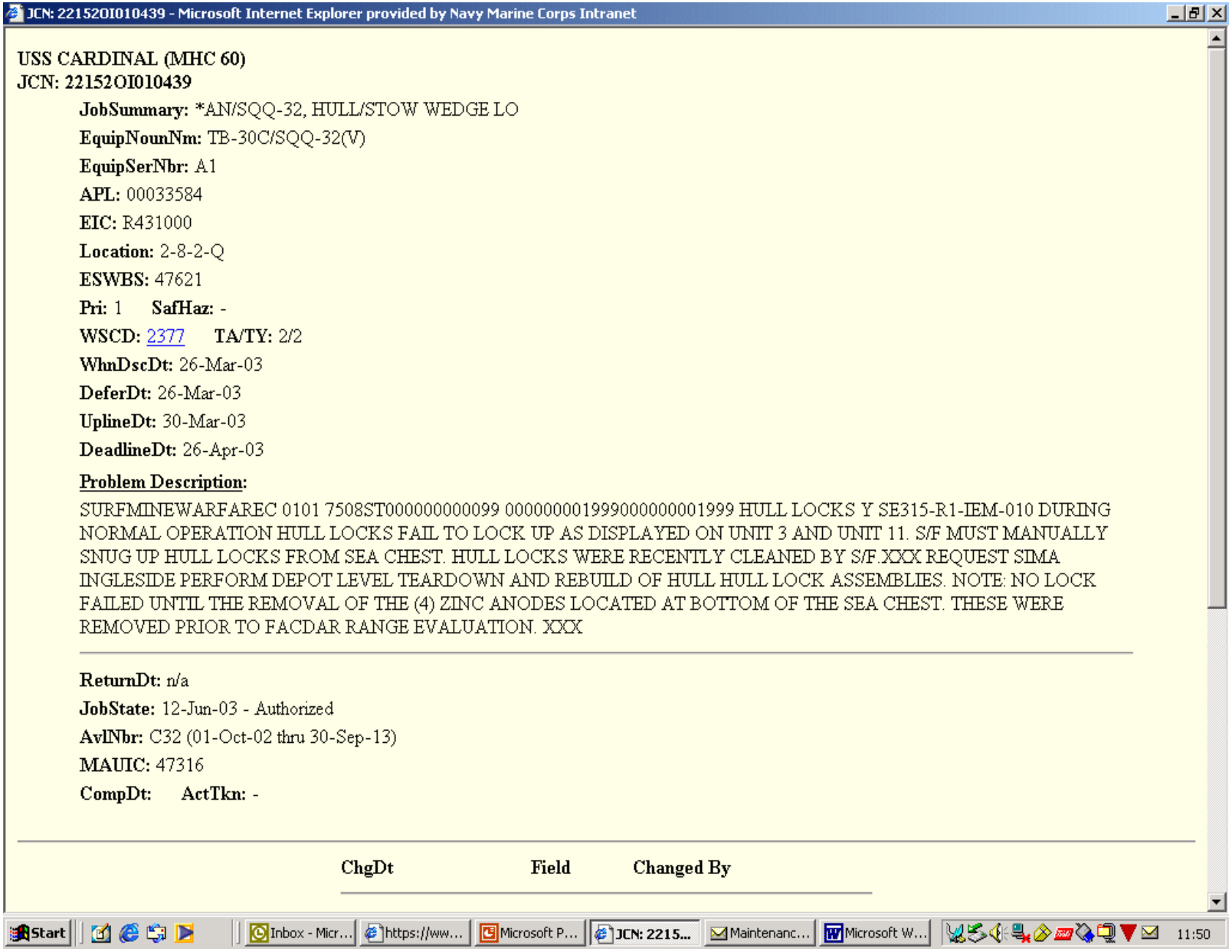
The FPY is shown in the lower left corner.

Clicking on an individual JCN will bring up detailed 2K information (shown on


https://www.spear.navy.mil/ShipMainMetrics/DataAnalysis/Lant_FPY1.asp - Microsoft Internet Explorer provided by Navy Marine Cor
File Edit View Favorites Tools Help
Back Search Favorites History
Address https://www.spear.navy.mil/ShipMainMetrics/DataAnalysis/Lant_FPY1.asp
Go Links
ShipMain/CFT1 DataAnalysis
MetricDesc: Ship 2K FirstPassYield(FPY)
Period(YYMM): 0306
Ship: 22152: USS CARDINAL (MHC60)
MaintLvl: ALL
Job Changes
JCN | JobSummary | TA | Avl | ScreenDt | APL | LOC | ENN | ESN | HSC | SUM | DES | SAF | RET
DA01/0202 REPLACE ANCHOR WINDLASS COVER 2 377 25-JUN-03 X
DA01/A039 HULL DK SEALANT DETERIORATION 1 461 08-JUN-03
DG01/0119 FABRICATE 50CAL GUN COVERS 1 377 25-JUN-03 X
EA01/0733 REPLCE BT CRANE MN BOOM BOLTS 1 377 29-JUN-03 X X
EA01/0734 REPLACE BOAT CRANE JIB BOLTS 1 377 29-JUN-03 X X
EA01/0738 VSP COOLER 1 C68 29-JUN-03
EA01/0739 S/W LEAK PORT BEARING 1 C68 29-JUN-03
EA01/Q368 2B COMPRESSOR REBUILD 1 C68 25-JUN-03 X
EA01/Q377 A-3R INSPECT SW SIDE COND 1 377 25-JUN-03
EA01/Q378 S-1R TEST SYS FOR LEAKS 1 377 25-JUN-03
EA01/Q379 Q-3 INSP COMP SUCT STR 1 377 25-JUN-03
EA01/Q380 A-3R INSP SW SIDE CONDENSOR 1 377 25-JUN-03
EA01/Q381 Q-3 INSP COMP SUCT STR 1 377 25-JUN-03
EA01/Q382 S-1R TEST SYS FOR LEAKS 1 377 25-JUN-03
EE01/0963 INOPERABLE DUE TO ELECTR GRND 1 377 10-JUN-03
EM01/0852 PIN HOLE LEAK VENT LINE 1 C68 10-JUN-03
EM01/Q369 2B COMPRESSOR REBUILD 1 C68 25-JUN-03 X
OI01/0439 REBUILD HULL LOCKS 2 C32 12-JUN-03 X
Job Count: 18
FPY Count: 11 (61%)
Back Print
Done
Internet
Start
Inbox - Microsoft Outlook
https://www.spear.na...
Microsoft PowerPoint - [P...
10:21

2K Detail Available

This is the pop-up box containing info on a selected 2K. The current info is shown.

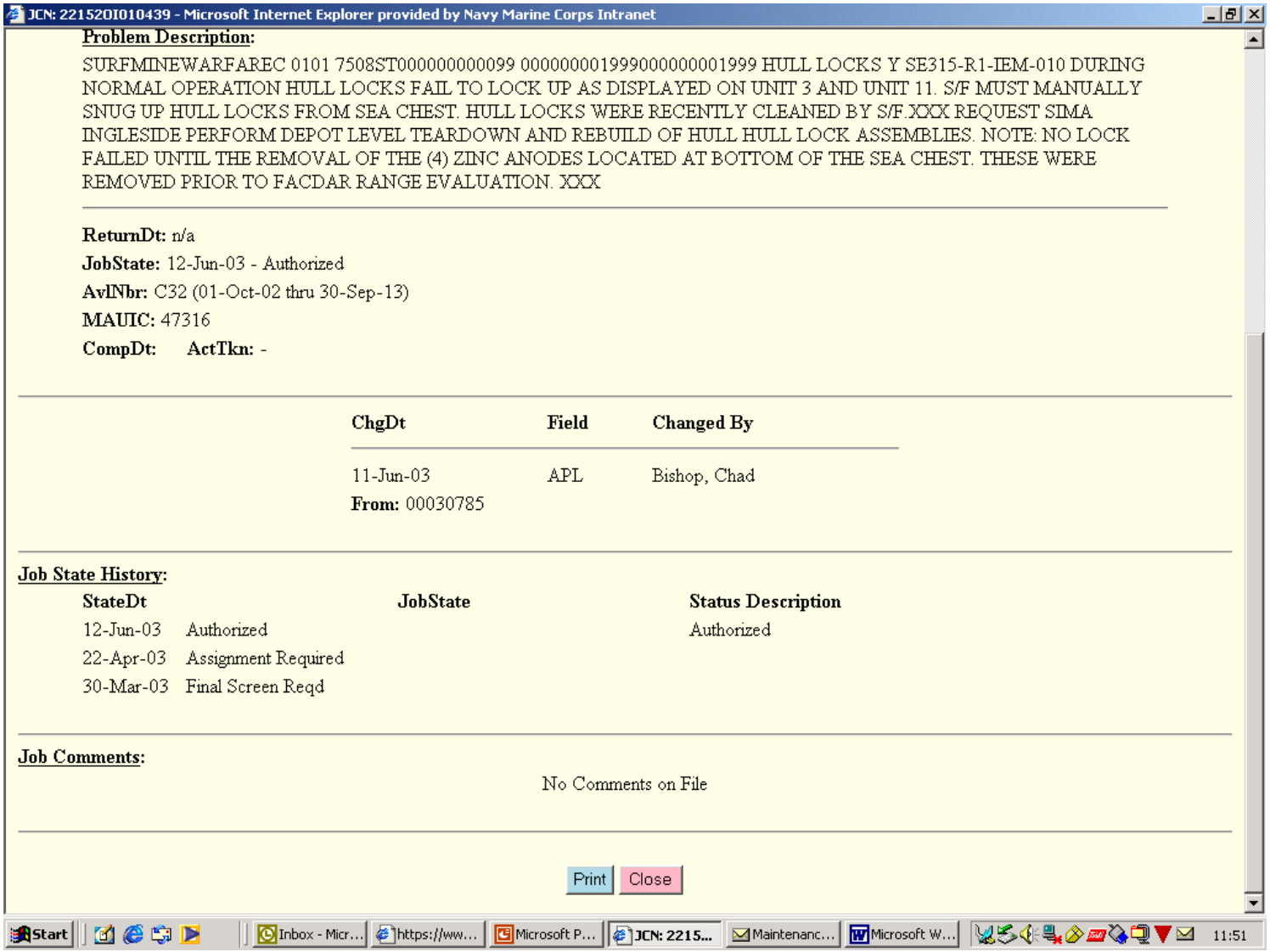

JCN: 22152OI010439 - Microsoft Internet Explorer provided by Navy Marine Corps Intranet
USS CARDINAL (MHC 60)
JCN: 22152OI010439
JobSummary: *AN/SQQ-32, HULL/STOW WEDGE LO
EquipNounNm: TB-30C/SQQ-32(V)
EquipSerNbr: A1
APL: 00033584
EIC: R431000
Location: 2-8-2-Q
ESWBS: 47621
Pri: 1 SafHaz: -
WSCD: 2377 TA/TY: 2/2
WhnDscDt: 26-Mar-03
DeferDt: 26-Mar-03
UplineDt: 30-Mar-03
DeadlineDt: 26-Apr-03
Problem Description:
SURFMINEWARFAREC 0101 7508ST000000000099 0000000019990000000001999 HULL LOCKS Y SE315-R1-IEM-010 DURING NORMAL OPERATION HULL LOCKS FAIL TO LOCK UP AS DISPLAYED ON UNIT 3 AND UNIT 11. S/F MUST MANUALLY SNUG UP HULL LOCKS FROM SEA CHEST. HULL LOCKS WERE RECENTLY CLEANED BY S/F XXX REQUEST SIMA INGLESIDE PERFORM DEPOT LEVEL TEARDOWN AND REBUILD OF HULL HULL LOCK ASSEMBLIES. NOTE: NO LOCK FAILED UNTIL THE REMOVAL OF THE (4) ZINC ANODES LOCATED AT BOTTOM OF THE SEA CHEST. THESE WERE REMOVED PRIOR TO FACDAR RANGE EVALUATION. XXX
ReturnDt: n/a
JobState: 12-Jun-03 - Authorized
AvlNbr: C32 (01-Oct-02 thru 30-Sep-13)
MAUIC: 47316
CompDt: ActTkn: -
ChgDt Field Changed By
Start
Inbox - Micr...
https://ww...
Microsoft P...
JCN: 2215...
Maintenanc...
Microsoft W...
11:50

2K Detail (Cont'd)

The lower half of the same pop up box. This shows what the original entry in the APL field was, and who made the change.

In addition, Job State History is also shown.

No changes are currently planned for the FPY screen or the 2K


JCN: 221520I010439 - Microsoft Internet Explorer provided by Navy Marine Corps Intranet
Problem Description:
SURFMINEWARFAREC 0101 7508ST000000000099 000000001999000000001999 HULL LOCKS Y SE315-R1-IEM-010 DURING NORMAL OPERATION HULL LOCKS FAIL TO LOCK UP AS DISPLAYED ON UNIT 3 AND UNIT 11. S/F MUST MANUALLY SNUG UP HULL LOCKS FROM SEA CHEST. HULL LOCKS WERE RECENTLY CLEANED BY S/F.XXX REQUEST SIMA INGLESIDE PERFORM DEPOT LEVEL TEARDOWN AND REBUILD OF HULL HULL LOCK ASSEMBLIES. NOTE: NO LOCK FAILED UNTIL THE REMOVAL OF THE (4) ZINC ANODES LOCATED AT BOTTOM OF THE SEA CHEST. THESE WERE REMOVED PRIOR TO FACDAR RANGE EVALUATION. XXX
ReturnDt: n/a
JobState: 12-Jun-03 - Authorized
AvlNbr: C32 (01-Oct-02 thru 30-Sep-13)
MAUIC: 47316
CompDt: ActTkn: -
ChgDt Field Changed By
11-Jun-03 APL Bishop, Chad
From: 00030785
Job State History:
StateDt JobState Status Description
12-Jun-03 Authorized Authorized
22-Apr-03 Assignment Required
30-Mar-03 Final Screen Reqd
Job Comments:
No Comments on File
Print
Close
Start
11:51

2K OTD (Prior to Avail)

This is the OTD details listing.

All jobs screened are listed, along with the number of days late.

Recall that the rules are as follows:

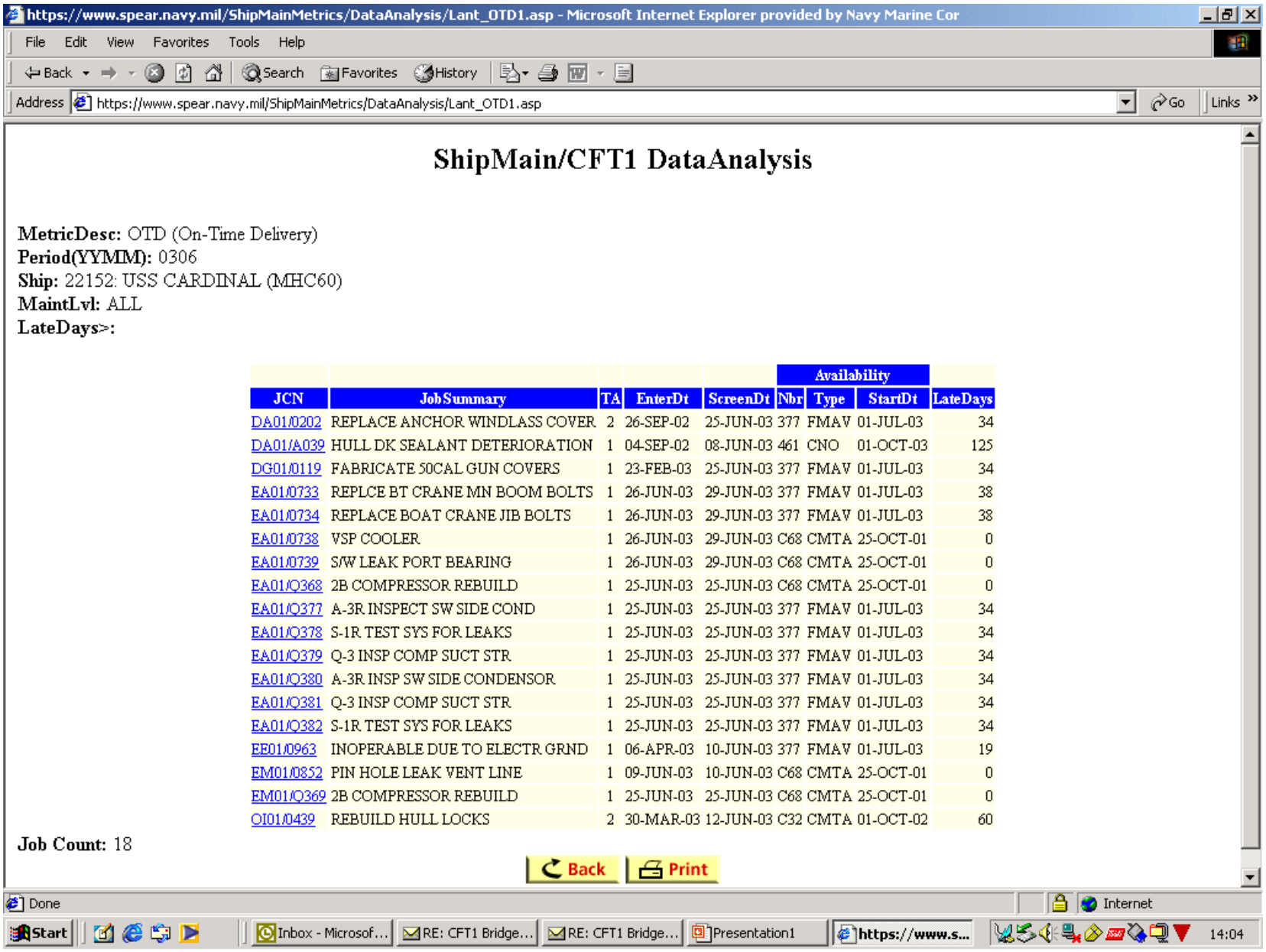
A-240 for CNO

A-40 for FMAV

Entry Date +14

For continuous maintenance avails and tech assist (CMTA)

Plan is to list # of


https://www.spear.navy.mil/ShipMainMetrics/DataAnalysis/Lant_OTD1.asp - Microsoft Internet Explorer provided by Navy Marine Cor
File Edit View Favorites Tools Help
Back Search Favorites History
Address https://www.spear.navy.mil/ShipMainMetrics/DataAnalysis/Lant_OTD1.asp
Go Links
ShipMain/CFT1 DataAnalysis
MetricDesc: OTD (On-Time Delivery)
Period(YYMM): 0306
Ship: 22152: USS CARDINAL (MHC60)
MaintLvl: ALL
LateDays>:
Availability
JCN JobSummary TA EnterDt ScreenDt Nbr Type StartDt LateDays
DA01/0202 REPLACE ANCHOR WINDLASS COVER 2 26-SEP-02 25-JUN-03 377 FMAV 01-JUL-03 34
DA01/A039 HULL DK SEALANT DETERIORATION 1 04-SEP-02 08-JUN-03 461 CNO 01-OCT-03 125
DG01/0119 FABRICATE 50CAL GUN COVERS 1 23-FEB-03 25-JUN-03 377 FMAV 01-JUL-03 34
EA01/0733 REPLCE BT CRANE MN BOOM BOLTS 1 26-JUN-03 29-JUN-03 377 FMAV 01-JUL-03 38
EA01/0734 REPLACE BOAT CRANE JIB BOLTS 1 26-JUN-03 29-JUN-03 377 FMAV 01-JUL-03 38
EA01/0738 VSP COOLER 1 26-JUN-03 29-JUN-03 C68 CMTA 25-OCT-01 0
EA01/0739 S/W LEAK PORT BEARING 1 26-JUN-03 29-JUN-03 C68 CMTA 25-OCT-01 0
EA01/Q368 2B COMPRESSOR REBUILD 1 25-JUN-03 25-JUN-03 C68 CMTA 25-OCT-01 0
EA01/Q377 A-3R INSPECT SW SIDE COND 1 25-JUN-03 25-JUN-03 377 FMAV 01-JUL-03 34
EA01/Q378 S-1R TEST SYS FOR LEAKS 1 25-JUN-03 25-JUN-03 377 FMAV 01-JUL-03 34
EA01/Q379 Q-3 INSP COMP SUCT STR 1 25-JUN-03 25-JUN-03 377 FMAV 01-JUL-03 34
EA01/Q380 A-3R INSP SW SIDE CONDENSOR 1 25-JUN-03 25-JUN-03 377 FMAV 01-JUL-03 34
EA01/Q381 Q-3 INSP COMP SUCT STR 1 25-JUN-03 25-JUN-03 377 FMAV 01-JUL-03 34
EA01/Q382 S-1R TEST SYS FOR LEAKS 1 25-JUN-03 25-JUN-03 377 FMAV 01-JUL-03 34
EE01/0963 INOPERABLE DUE TO ELECTR GRND 1 06-APR-03 10-JUN-03 377 FMAV 01-JUL-03 19
EM01/0852 PIN HOLE LEAK VENT LINE 1 09-JUN-03 10-JUN-03 C68 CMTA 25-OCT-01 0
EM01/Q369 2B COMPRESSOR REBUILD 1 25-JUN-03 25-JUN-03 C68 CMTA 25-OCT-01 0
OI01/0439 REBUILD HULL LOCKS 2 30-MAR-03 12-JUN-03 C32 CMTA 01-OCT-02 60
Job Count: 18
Back Print
Done
Internet
Start
Inbox - Microsof...
RE: CFT1 Bridge...
RE: CFT1 Bridge...
Presentation1
https://www.s...
14:04

Surface Ships
SHIPMAIN

SHIPMAIN
Maintenance & Modernization Business Plan

Addendum to CNSF Notice 4703

Maintenance and Modernization Business Plan (MMBP)

- *The tool Maintenance Teams, RMCs and TYCOMs will use to build annual, individual ship maintenance budgets.*
  - *Standardizes policies and process across all RMCs.*
  - *Captures modernization requirements, including effects on TYCOM and PEO funding early in the process (pro-rated services and overhead).*
  - *Formalizes the Maintenance Teams' involvement and responsibility in the development of annual Ship maintenance "budgets"*
  - *Provides individual ship maintenance funding phasing plans – updated Quarterly*

Maintenance and Modernization Business Plan (MMBP) Plan

- Building the Plan:
  - MARCH – ***Provide preliminary controls to MTs***
    - TYCOM – **Provide budget estimates, schedule information, MRS notional controls (it is anticipated that MFOM Thresholds will be provided starting in FY-05 to build FY-06 MMBPs).**
    - RMC – **Provide initial CNO Availability and CM Control Targets to Maintenance Teams (MT).**
  - APRIL – ***MTs Compare requirements to controls***
    - TYCOM – **Provide Modernization requirements (Program and Fleet Alts) to RMC / Maintenance Teams.**
    - MT – **Submit preliminary CNO Avail and CM requirements to RMC for review.**

Maintenance and Modernization Business Plan (MMBP) Plan

- MAY
  - TYCOM – **Provide execution strategy and revised budget estimates to RMC**
  - MT / RMC **– Refine plan, adjust as required, use MFOM to prioritize work.**

RMC and Maintenance Teams define / prioritize controls

- JUNE
  - RMC **– Submit proposed changes to budgets**

Maintenance and Modernization Business Plan (MMBP) Plan

- JULY ***TYCOM / RMC Final Agreement***
  - TYCOM **– Approve controls or revise execution strategy**
  - RMC **– Provide final controls to MTs**

Approved MMBP submitted

- August
  - MT **– Submit final MMBP (with phasing info) to RMC approval.**
  - RMC **– Forward phasing plan info to TYCOM (updated Quarterly)**

Budget estimates in FEB lead to a Phasing Plan in AUG

MMBP ORGANIZATION

- The MMBP is comprised of two sections:
  - Executive Summary
    - Schedule Information
    - Summary of Annual maintenance "budget"
    - Summary of planned maintenance and risk assessment
  - Budget Planning Sheet and Phasing Plan
    - CNO, CM and any other Maintenance funding controls
    - Quarterly Phasing Plan

Maintenance and Modernization Business Plan Executive Summary

USS TEMPLATE
CG-XX
MAINTENANCE AND MODERNIZATION BUSINESS PLAN
EXECUTIVE SUMMARY
FY 2005

Schedule Information

SCHEDULE OVERVIEW

EVENT	DATES
• Surge Ready Asset	01 OCT 04- 01 JAN 05
• CMAV	20 OCT- 14 NOV 04
• INSURV	17 NOV 04
• CNO Avail DSRA 04	07 JAN 05- 26 MAY 05
• HME&RA/C5RA	14 JUN -25 JUN 05
• Follow on CMAV	06 JULY 05- 23 JULY 05
• Initial Assessment	21 AUG 05
• Underway Demo	10 OCT 05
• FEP	23 OCT 05
• Deployment	01 OCT 05
• Cruiser Conversion	FY 07
• 5 year avail sched	DSRA FY07; SRA FY-09; SRA FY11

Maintenance and Modernization Business Plan Executive Summary (cont'd)

USS TEMPLATE
CG-XX
MAINTENANCE AND MODERNIZATION BUSINESS PLAN
EXECUTIVE SUMMARY
FY 2005

Maintenance & Modernization Funding

MAINTENANCE FUNDING REQUIREMENTS

- Continuous Maintenance $500,000
- DSRA 04 Funding $10,000,000
  - TYCOM FUNDING $5,000,000
  - NAVSEA FUNDING $2,500,000
  - SPAWAR FUNDING $2,500,000
  - NAVAIR FUNDING $NA
- FY-07 CNO Avail Advance Funding $200,000

Summary and Risk Assessment

MAINTENANCE SUMMARY and RISK ASSESSMENT

This ship is fully funded and has no maintenance related risk. The Maintenance Team is effective and has planned for all possible contingencies. The team has not spent a dollar on a maintenance premium in over 5 years.

Budget Planning Sheet & Phasing Plan

Phasing Plan

CNO AVAIL

FY 05 Budget for USS SHIP (CLS-0)

				Q1	Q2	Q3	Q4
FY 05 CNO Avail Budget Total			**$0**	$0	$0	$0	$0
	CSMP Now (#AWRs)	Expected CSMP @ lock (#AWRs)	Budget Requirement	Comments			
Repair Total	0	0	$0	Package Locked			
HM&E (Detail, if req)				Labor and material			
CS/C4I (Detail, if req)				Labor and material			
Modernization	0	0	$0				
Fleet SHIPALTS				Labor and material			
Program SHIPALTS				TYCOM Pro-ration cost			
a. Package Subtotal			$0				
b. Current year Adv Pln if any			$0	(late FY avails especially)			
c. Growth (X% of a.)			$0	(% based on CNSF Policy)			
d. Service/Support (X% of a.)			$0	(800/900's, if not included above)			
e. LLTM			$0	GFM or items not in a. already			
f. Award/Incentive Fee (X% of a.-e.)			$0	(Budget for max % possible in contract)			
g. Other costs (expl. in summary)							

Addresses Program Alt Pro-ration cost

Award Fee, Misc

CNSF Policy for Growth

Budget Planning Sheet & Phasing Plan (Cont'd)

CM

CM Phasing Plan

FY 05 Budget for USS SHIP (CLS-0)

				Q1	Q2	Q3	Q4
			$0	$0	$0	$0	$0
FY 05 CM Budget Total			$0	$0	$0	$0	$0
	#AWR's pending	#AWR's expected	ROM $'s				
Repair Total	0	0	$0				
HM&E (Detail, if req)				Labor and material			
CS/C4I (Detail, if req)				Labor and material			
Assessment&Grooms							
Modernization	0	0	$0				
Fleet SHIPALTS				Labor and material			
Program SHIPALTS				TYCOM Pro-ration cost			
a. CM Package Subtotal			$0				
b. Growth (X% of a.)			$0	(% based on CNSF Policy)			
d. Award/Incentive Fee (X% of a.-b.)			$0	(Budget for max % possible in contract)			
e. Other costs (expl. in comnts)							
				Q1	Q2	Q3	Q4
FY 05/06 CNO Avail Advance Funding			$0				
FY 05 Total Phaseing Plan			$0	$0	$0	$0	$0

Advanced Funding

Habitability, ...

Total Phasing Plan

Surface Ships SHIPMAIN

Keys To Success

- *Training*
- *Discipline*
  - *Follow the Process*
- *Feedback*
  - *Gather the Facts*
  - *Look for the Barriers*
- *Process Improvement*
  - *Cycles of Learning*

Surface Ships SHIPMAIN

Final Questions?